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The DACS serves as a gateway to software technology information by providing access to WWW resources, publishing technical reports, hosting seminars, publishing the *Software Tech News* newsletter, presenting courses, and performing technical studies for DACS patrons.

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**Providing the Right Information at the Right Time**

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# Software Testing Services



## Products & Services Available from the



**[www.dacs.dtic.mil](http://www.dacs.dtic.mil)**

Unclassified and Unlimited Distribution

## Software Test Automation

By various estimates, testing can eat up as much as 30% of the total development budget of a software product. Creating complete and efficient tests, and maintaining those tests to assure ongoing quality, is a big job.

Model based test generation and automated script execution can make testers far more productive than simple manual or capture and replay methods. Organizations that make more extensive use of test automation tools can both improve product quality through more effective testing, and save money.

## New technology can help us...

### *Do it faster.*

Create more tests faster using application modeling together with automatic test execution and validity checking.

### *Run fewer redundant tests.*

Test only the variations and combinations of input values that are likely to cause errors.

### *Achieve higher quality.*

Start with what users expect from a system, and apply rigorous modeling techniques to nail bugs that would otherwise slip through ad hoc testing methods.

## DACS Consulting and Tools

*The DACS can help you*

- ☛ Select test automation tools that are right for your project.
- ☛ Understand different automation approaches that are appropriate for testing graphical user interfaces, interprocess communications, feature interactions, and system interoperability.
- ☛ Apply test coverage tools not only to measure coverage but also to pinpoint code associated with specific features and kinds of processing, such as year 2000 dates.

